IN THE CLAIMS

Please AMEND the claims as follows:

1-85. (Canceled)

86. (Currently Amended) An oil comprising a compound selected from the group consisting of brassicastanol, at least one brassicastanol ester, stigmastanol, or at least one stigmastanol ester, and a mixture thereof[[.]], wherein said brassicastanol has the structure

Brassicastanol

and said stigmastanol has the structure

Stigmastanol

87-88. (Canceled)

- 89. (Withdrawn) A first oil produced in a transgenic seed having an elevated level of a compound selected from the group consisting of sitosterol, at least one sitosterol ester, sitostanol, at least one sitostanol ester, and mixtures thereof, as well as a reduced level of a compound selected from the group consisting of campesterol, a campesterol ester, campestanol, a campestanol ester, and mixtures thereof, compared to a second oil produced in a corresponding non-transgenic seed.
- 90. (Currently Amended) The oil of claim 86, wherein said oil is produced in a transgenic seed having a reduced level of a compound selected from the group consisting of campesterol, a campesterol ester, campestanol, a campestanol ester, and mixtures thereof, compared to a second oil produced in a corresponding or non-transgenic seed.
- 91. (Withdrawn) The first oil of claim 89, wherein said first oil comprises an elevated level of sitosterol and sitostanol, as well as a reduced level of campesterol.
- 92. (Withdrawn) The first oil of claim 91, wherein said elevated level of sitostanol is up to a 10-fold increase in sitostanol, and said reduced level of campesterol is up to a 5.6-fold decrease in campesterol.
- 93. (Previously Presented) The oil according to claim 86, further comprising a compound selected from the group consisting of at least one sterol, at least one phytosterol ester, at least one phytostanol, at least one phytostanol ester, and a mixture thereof.
- 94. (Previously Presented) The oil according to claim 93, further comprising a compound selected from the group consisting of a sitostanol, at least one sitostanol ester, and a mixture thereof, wherein said sitostanol, at least one sitostanol ester, or a mixture thereof comprises at least about 57% by weight of the total sterol compounds of said oil.

95-96. (Canceled)

- 97. (Previously Presented) The oil according to claim 86, further comprising a campesterol ester, campestanol, at least one campestanol ester, and a mixture thereof, wherein said campesterol ester, campestanol, at least one campestanol ester, and a mixture thereof, comprises about 5% to about 9% by weight of the total sterol compounds of the oil.
- 98. (Previously Presented) The oil according to claim 86, wherein said oil is produced in a transgenic seed.
- 99. (Withdrawn) The first oil according to claim 89, wherein the genome of said transgenic_seed comprises an introduced deoxyribonucleic acid molecule (DNA) encoding a steroid 5α-reductase enzyme, wherein said introduced DNA is operatively linked to regulatory signals that cause seed-specific or plastid-specific expression of said introduced DNA.
- 100. (Withdrawn) The first oil according to claim 99, wherein the amino acid sequence of said steroid 5α-reductase enzyme is from a source selected from the group consisting of *Arabidopsis*, corn, and soybean.
- 101. (Withdrawn) The first oil according to claim 99, wherein said introduced DNA comprises a polynucleotide sequence selected from the group consisting of SEQ ID NO: 2, SEQ ID NO: 4, SEQ ID NO: 6, and SEQ ID NO: 8.
- 102. (Withdrawn) The first oil according to claim 99, wherein the amino acid sequence of said steroid 5α-reductase enzyme is selected from the group consisting of SEQ ID NO: 3, SEQ ID NO: 5, SEQ ID NO: 7, and SEQ ID NO: 9.
- 103. (Withdrawn) The first oil according to claim 89, wherein said first oil is produced by a transgenic seed from a plant selected from the group consisting of *Brassica*, soybean, castor

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bean, cotton, safflower, sunflower, flax, corn, coconut, palm, olive, sesame, peanut, *Arabidopsis*, tobacco, wheat, barley, oats, amaranth, potato, rice, tomato, peas, beans, lentils, and alfalfa.

- 104. (Withdrawn) A first oil produced in a transgenic seed having an elevated level of a compound selected from the group consisting of sitosterol, at least one sitosterol ester, sitostanol, at least one sitostanol ester, and mixtures thereof, as well as a reduced level of a compound selected from the group consisting of campesterol, a campesterol ester, campestanol, a campestanol ester, and mixtures thereof, compared to a second oil produced by a corresponding non-transgenic seed, wherein the genome of said transgenic seed comprises an introduced DNA encoding a steroid 5α-reductase enzyme and said introduced DNA is operatively linked to regulatory signals that cause seed-specific or plastid-specific expression of said introduced DNA.
- 105. (Withdrawn) An oil produced in a transgenic seed comprising a compound selected from the group consisting of brassicastanol, at least one brassicastanol ester, stigmastanol, at least one stigmastanol ester, and a mixture thereof.
- 106. (Withdrawn) The oil according to claim 105, further comprising a compound selected from the group consisting of at least one sterol, at least one phytosterol, at least one phytosterol ester, at least one phytostanol, at least one phytostanol ester, and a mixture thereof.
- 107. (Withdrawn) The oil according to claim 106, further comprising a compound selected from the group consisting of a sitostanol, at least one sitostanol ester, and a mixture thereof, wherein said sitostanol, at least one sitostanol ester, or a mixture thereof comprises at least about 57% by weight of the total sterol compounds of said oil.
- 108. (Withdrawn) The oil according to claim 105, further comprising a compound selected from the group consisting of a sitostanol, at least one sitostanol ester, and a mixture thereof, wherein said sitostanol, at least one sitostanol ester, or a mixture thereof comprises at least about 0.08% of the dry weight of said transgenic seed.

- 109. (Withdrawn) The oil according to claim 105, further comprising a tocopherol compound in an amount of at least about 0.02% of the dry weight of said transgenic seed.
- 110. (Withdrawn) The oil according to claim 105, further comprising a campesterol ester, campestanol, at least one campestanol ester, and a mixture thereof, wherein said campesterol ester, campestanol, at least one campestanol ester, and a mixture thereof, comprises about 5% to about 9% by weight of the total sterol compounds of the oil.